

O R E J C I  
JAN 25 2005  
U.S. PATENT & TRADEMARK OFFICE

PTO-1449 (REV. 8-83)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051		
		APPLICANT: Caplan			
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		FILING DATE: December 4, 2003	GROUP: 1644		
<b>U.S. PATENT DOCUMENTS</b>					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Pnk	*6,221,648	Le Page et al.	April 24, 2001	435	252.3
	*5,888,799	Curtiss, III	March 30, 1999	435	252.3
	*5,834,246	Holmgren et al.	November 10, 1998	435	69.7
↓	*5,830,463	Duke et al.	November 3, 1998	424	93.51
<b>U.S. PATENT APPLICATIONS</b>					
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Pnk	*WO 99/38978	International	05 August 1999		
Pnk	*WO 98/23763	International	04 June 1998		
<b>OTHER DOCUMENTS</b>					
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)				
Pnk	*Banks, et al., "Chemistry and Pharmacology of Honey-Bee Venom", <i>Venoms of the Hymenoptera</i> , 329-416, 1986.				
	*Eko, et al., "New Strategies for Combination Vaccines Based on the Extended Recombinant Bacterial Ghost System", <i>Vaccine</i> , 17: 1643-1649, 1999.				
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↓	*Hess, et al., "Superior Efficacy of Secreted Over Somatic Antigen Display in Recombinant Salmonella Vaccine Induced Protection Against Listeriosis", <i>Proc. Natl. Acad. Sci. USA</i> , 93: 1458-1463, 1996.				

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PW	*5,820,880	Alving et al.	October 13, 1998	424	450
↓	*5,759,572	Sugimoto et al.	June 2, 1998	424	450

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**OTHER DOCUMENTS**

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
PW	*Koppelman, et al., "Peanut Allergen Ara h 3: Isolation from peanuts and biochemical characterization", <i>Allergy</i> , 58: 1144-1151, 2003.
PW	*Triozzi, et al., "Effects of a β-Human Chorionic Gonadotropin Subunit Immunogen Administered in Aqueous Solution with a Novel Nonionic Block Copolymer Adjuvant in Patients with Advanced Cancer", <i>Clinical Cancer Research</i> , 3: 2355-2362, 1997.

EXAMINER

DATE CONSIDERED

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PJX	*Amorim, et al., "Suppression of Airway Eosinophilia by Killed Mycobacterium Vaccae-Induced Allergen-Specific Regulatory T-Cells", <i>Nature Medicine</i> , 8(6): 625-629, 2002.
	*Asturias, et al., "Is Tropomyosin an Allergen in Anisakis?", <i>Allergy</i> , 55: 898-890, 2000.
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↓	*Barderas, et al., "Identification and Characterization of Che a 1 Allergen from Chenopodium Album Pollen", <i>Int. Arch. Allergy Immunol.</i> 127: 47-54, 2002.

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<p><i>P.M.</i></p> <p>*Barnes, P.J., "IL-10: A Key Regulator of Allergic Disease", <i>Clinical and Experimental Allergy</i>, 31: 667-669, 2001.</p>			
<p>*Bashir, et al., "An Enteric Helminth Infection Protects Against an Allergic Response to Dietary Antigen", <i>The Journal of Immunology</i>, 169: 3284-3292, 2002.</p>			
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<p>*Chang, et al., "Characterization of Enolase Allergen from Rhodotorula Mucilaginosa", <i>J. Biomed. Sci.</i> 9: 645-655, 2002.</p>			
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<p><i>P, K</i></p>		<p>*Diaz-Perales, et al., "Lipid-Transfer Proteins as Potential Plant Panallergens: Cross-Reactivity Among Proteins of Artemisia Pollen, Castanea Nut and Rosaceae Fruits, with Different IgE-Binding Capacities", <i>Clinical and Experimental Allergy</i>, 30: 1403-1410, 2000.</p>	
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<p><i>Psk</i></p> <p>*Kalliomaki, et al., "Transforming Growth Factor-<math>\beta</math> in Breast Milk: A Potential Regular of Atopic Disease at an Early Age", <i>J. Allergy Clin. Immunol.</i> 104(6): 1251-1257, 1999.</p> <p>*Kleine-Tebbe, et al., "Severe Oral Allergy Syndrome and Anaphylactic Reactions Caused by a Bet v 1-Related PR-10 Protein in Soybean, SAM22", <i>J. Allergy Clin. Immunol.</i> 110: 797-804, 2002.</p> <p>*Kowalski, et al., "Mechanisms of Specific Immunotherapy of Allergic Diseases", <i>Allergy</i>, 53: 485-492, 1998.</p> <p>*Ledesman, et al., "Cloning, Expression and Characterization of a Novel Four EF-Hand <math>Ca^{2+}</math>-Binding Protein from Olive Pollen with Allergenic Activity", <i>FEBS Letter</i>, 466: 192-196, 2000.</p> <p>*Lee, et al., "Oral Administration of IL-12 Suppresses Anaphylactic Reactions in a Murine Model of Peanut Hypersensitivity", <i>Clinical Immunology</i>, 101(2): 220-228, 2001.</p> <p>*Leung, et al., "Effect of Anti-IgE Therapy in Patients with Peanut Allergy", <i>N. Engl. J. Med.</i> 348: 986-993, 2003.</p> <p>*Li, et al., "A Murine Model of Peanut Anaphylaxis: T- and B-Cell Responses to a Major Peanut Allergen Mimic Human Responses", <i>J. Allergy Clin. Immunol.</i> 106: 150-158, 2000.</p> <p>*Li, et al., "Novel Approaches for the Treatment of Food Allergy", <i>Current Opinion in Allergy and Clinical Immunology</i>, 2: 273-278, 2002.</p> <p>*Li, et al., "Engineered Recombinant Peanut Protein and Heat-Killed Listeria Monocytogenes Coadministration Protects Against Peanut-Induced Anaphylaxis in a Murine Model", <i>The Journal of Immunology</i>, 170: 3289-3295, 2003.</p> <p>*Li, et al., "Strain-Dependent Induction of Allergic Sensitization Caused by Peanut Allergen DNA Immunization in Mice", <i>The Journal of Immunology</i>, 162: 3045-3052, 1999.</p> <p>*Lombardero, et al., "cDNA Sequence Analysis of the Main Olive Allergen, Ole e I", <i>Clinical and Experimental Allergy</i>, 24: 765-770, 1994.</p> <p>*Lopata, et al., "Characteristics of Hypersensitivity Reactions and Identification of a Unique 49 kd IgE-Binding Protein (Hal-m-1) in Abalone (Haliotis Midae)", <i>J. Allergy Clin. Immunol.</i> 100: 642-648, 1997.</p>			

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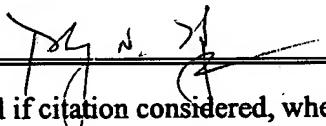
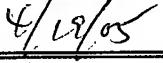
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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		FILING DATE: December 4, 2003	GROUP: 1644
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<p>*Smith, et al., "Sequence Polymorphisms and Antibody Binding to the Group 2 Dust Mite Allergens", <i>Int. Arch. Allergy Immunol.</i> 124: 61-63, 2001.</p>			
<p>*Smith, et al., "The Molecular Basis of Antigenic Cross-Reactivity Between the Group 2 Mite Allergens", <i>J. Allergy Clin Immunol.</i> 107: 977-984, 2001.</p>			
<p>*Snapper, et al., "Interferon-<math>\gamma</math> and B Cell Stimulatory Factor-1 Reciprocally Regulate Ig Isotype Production", <i>Science</i>, 236: 944-947, 1987.</p>			
<p>*Sommergruber, et al., "Molecular Characterization of Dau c 1, the Bet v 1 Homologous Protein from Carrot and its Cross-Reactivity with Bet v 1 and Api g 1", <i>Clinical and Experimental Allergy</i>, 29: 840-847, 1999.</p>			
<p>↓ *Stanley, et al., "Identification and Mutational Analysis of the Immunodominant IgE Binding Epitopes of the Major Peanut Allergen Ara h 2", <i>Archives of Biochemistry and Biophysics</i>, 342(2): 244-253, 1997.</p>			

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PTO-1449  (REV. 8-83)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANT: Caplan	
		FILING DATE: December 4, 2003	GROUP: 1644
<p>PW</p> <p>*Strobel, et al., "Immune Responses to Dietary Antigens: Oral Tolerance", <i>Immunology Today</i>, 19: 173-181, 1998.</p> <p>*Strobel, et al., "Oral Tolerance, Systemic Immunoregulation, and Autoimmunity" <i>Ann. N.Y. Acad. Sci.</i> 958: 47-58, 2002.</p> <p>*Tejera, et al., "Identification, Isolation, and Characterization of Ole e 7, a New Allergen of Olive Tree Pollen", <i>J. Allergy Clin Immunol.</i>, 104: 797-802, 1999.</p> <p>*Tinghino, et al., "Molecular Characterization of a Cross-Reactive Juniperus Oxycedrus Pollen Allergen, Jun o 2: A Novel Calcium-Binding Allergen", <i>J. Allergy Clin Immunol.</i>, 101: 772-777, 1998.</p> <p>*Tsai, et al., "Sequence Analysis and Expression of a cDNA Clone Encoding a 98-kDa Allergen in Dermatophagoides Farinae", <i>Clinical and Experimental Allergy</i>, 29: 1606-1613, 1999.</p> <p>*Turcanu, et al., "Characterization of Lymphocyte Responses to Peanuts in Normal Children, Peanut-Allergic Children, and Allergic Children who Acquired Tolerance to Peanuts", <i>The Journal of Clinical Investigation</i>, 111(7): 1065-1072, 2003.</p> <p>*Weiner, et al., "Oral Tolerance: Immune Mechanisms and Treatment of Autoimmune Diseases", <i>Immunology Today</i>, 18: 335-343, 1997.</p> <p>*Wopfner, et al., "Molecular and Immunological Characterization of Profilin from Mugwort Pollen", <i>Biol. Chem.</i> 383: 1779-1789, 2002.</p> <p>*Wu, et al., "Sequencing Analysis of cDNA Clones Encoding the American Cockroach Cr-PI Allergens", <i>The Journal of Biological Chemistry</i>, 271(30): 17937-17943, 1996.</p> <p>*Wu, et al., "Cloning of the American Cockroach Cr-PII Allergens: Evidence for the Existence of Cross-Reactive Allergens Between Species", <i>J. Allergy Clin. Immunol.</i>, 101: 832-840, 1998.</p> <p>*Wu, et al., "Sequencing and Immunochemical Characterization of the American Cockroach Per a 3 (Cr-PI) Isoallergenic Variants", <i>Molecular Immunology</i>, 34(1): 1-8, 1997.</p> <p>*Xu, et al., "Cloning, Expression and Immunological Characterization of Ory s 1, the Major Allergen of Rice Pollen", <i>Gene</i>, 164: 255-259, 1995.</p> <p>✓ *Yasueda, et al., "Identification and Cloning of Two Novel Allergens from the Lipophilic Yeast, <i>Malassezia Furfur</i>", <i>Biochemical and Biophysical Research Communications</i>, 248: 240-</p>			

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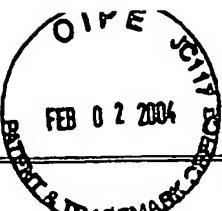
PTO-1449  (REV. 8-83)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051
		APPLICANT: Caplan	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		FILING DATE: December 4, 2003	GROUP: 1644
		244, 1998.	
		*Yeung, et al., "Heat-Killed Listeria Monocytogenes as an Adjuvant Converts Established Murine Th2-Dominated Immune Responses into Th1-Dominated Responses", <i>The Journal of Immunology</i> , 161: 4146-4152, 1998.	
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		*Yocum, et al., "Epidemiology of Anaphylaxis in Olmsted County: A Population-Based Study", <i>J. Allergy Clin. Immunol.</i> 104: 452-456, 1999.	
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		*Yu, et al., "Proteomics and Immunological Analysis of a Novel Shrimp Allergen, Pen M 2", <i>The Journal of Immunology</i> , 170: 445-453, 2003.	
EXAMINER			
	DATE CONSIDERED  4/19/05		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANT: Caplan, et al.	
				FILING DATE: December 4, 2003	GROUP:
<b>U.S. PATENT DOCUMENTS</b>					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
<b>U.S. PATENT APPLICATIONS</b>					
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
PNK	EP 0 080 806	Europe	08 June 1983	<hr/>	
↓	WO 98/44096	PCT	08 October 1998	<hr/>	
↓	WO 96/14876	PCT	23 May 1996	<hr/>	
<b>OTHER DOCUMENTS</b>					
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)				
PNK	Hansen, "Vaccination with Heat-Killed Listeria as Adjuvant Reverses Established Allergen-Induced Airway Hyperreactivity and Inflammation: Role of CD8 <sup>+</sup> T Cells and IL-18", <i>The Journal of Immunology</i> , 164: 223-230, 2000.				
PNK	Mekalanos, "Bacterial Mucosal Vaccines" in Genetically Engineered Vaccines, Edited by Ciardi et al., Plenum Press, Pages 43-50, 1992.				
EXAMINER				DATE CONSIDERED	8/19/05
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

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PTO-1449

(REV. 8-83)

U.S. Department of  
Commerce  
Patent and Trademark Office

ATTY. DOCKET:  
2002834-0222

IN RE  
APPLICATION NO.:  
10/728,051

APPLICANT: Caplan, et al.

FILING DATE:  
December 4, 2003

GROUP:

1644

**SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PJK	6,218,371	Krieg et al.	April 17, 2001	514	44
	5,061,790	Elting et al.	October 29, 1991	530	402
	4,959,314	Mark et al.	September 25, 1990	435	69.1
	4,849,404	Iwai et al.	July 18, 1989	514	2
↓	4,658,022	Knowles et al.	April 14, 1987	530	402

**U.S. PATENT APPLICATIONS**

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

**OTHER DOCUMENTS**

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
PJK	Del Val, et al., "Thioredoxin Treatment Increases Digestibility and Lowers Allergenicity of Milk", <i>J. Allergy Clin. Immunol.</i> 103(4): 690-697, 1999.
	Hoyne, et al., "Peptide-Mediated Regulation of the Allergic Immune Response", <i>Immunol. Cell Biol.</i> 74(2): 180-186, 1996.
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	Burns, et al., "Selective Reduction of Disulfides by Tris (2-Carboxyethyl) Phosphine", <i>J. Org. Chem.</i> 56(8): 2648-2650, 1991.
↓	Gray, et al., "Echistatin Disulfide Bridges: Selective Reduction and Linkage Assignment", <i>The Protein Society</i> , 1749-1755, 1993.

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PTO-149 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANT: Caplan, et al.		
		FILING DATE: December 4, 2003	GROUP: 1644	
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)			
PW	Ichikawa, et al., "Solution Structure of Der f 2, the Major Mite Allergen for Atopic Disease", <i>J. Mol. Chem.</i> , 273: 356-360, 1998.			
	Medaglini, et al., "Mucosal and Systemic Immune Responses to a Recombinant Protein Expressed on the Surface of the Oral Commensal Bacterium Streptococcus Gordonii After Oral Colonization", <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 92(15): 6868-6872, 1995.			
	Nishiyama, et al., "Analysis of the IgE-epitope of Der f 2, a Major Mite Allergen, by in vitro Mutagenesis", <i>Mol. Immunol.</i> , 32: 1021-1029, 1995.			
	Nishiyama, et al., "Effects of Amino Acid Variations in Recombinant Der f II on its Human IgE and Mouse IgG Recognition", <i>Int. Arch. Allergy Immunol.</i> , 105: 62-69, 1994.			
	Takai, et al., "Effect of Proline Mutations in the Major House Dust Mite Allergen Der f 2 on IgE-binding and Histamine-releasing Activity", <i>Eur. J. Biochem.</i> , 267: 6650-6656, 2000.			
	Takai, et al., "Non-anaphylactic Combination of Partially Deleted Fragments of the Major House Dust Mite Allergen Der f 2 for Allergen-specific Immunotherapy", <i>Mol. Immunol.</i> , 36: 1055-1065, 1999.			
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	Vrtala, et al., "Humoral Immune Responses to Recombinant Tree Pollen Allergens (Bet v 1 and Bet v II) in Mice: Construction of a Live Oral Allergy Vaccine", <i>International Archives of Allergy and Immunology</i> , 107: (1-3): 290-294, 1995.			
	EMBL Accession No. L77197 (March 1996)			
EXAMINER				DATE CONSIDERED 4/19/05
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				

<b>PTO-901A (Rev. 8-83)</b> (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office		<b>ATTY. DOCKET:</b> <b>2002834-0222</b>	<b>IN RE</b> <b>APPLICATION NO.:</b> <b>10/728,051</b>
<b>SUPPLEMENTAL</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				<b>APPLICANT:</b> Caplan, et al.	
				<b>FILING DATE:</b> December 4, 2003	<b>GROUP:</b> <i>1644</i>
<b>U.S. PATENT DOCUMENTS</b>					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PnK	5,888,799	Curtiss III	March 30, 1999		
↓	5,830,463	Duke, et al.	November 3, 1998		
↓	5,389,368	Gurtiss III	February 14, 1995		
<b>U.S. PATENT APPLICATIONS</b>					
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
PnK	CA 2 158 047	Canada	15 September 1994		
↓	CA 2 157 596	Canada	29 September 1994		
	JP 07095887	Japan	11 April 1995		
	JP 06253851	Japan	13 September 1994		
	WO 00/54803	PCT	21 September 2000		
	WO 99/25387	PCT	27 May 1999		
↓	WO 94/20614	PCT	15 September 1994		
<b>OTHER DOCUMENTS</b>					
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)				
PnK	Burks, et al., "Epitope Specificity of the Major Peanut Allergen, Ara h II", <i>J. Allergy Clin. Immunol.</i> 95: 607-611, 1995.				
↓	Gayler, et al., "Biosynthesis, cDNA and Amino Acid Sequences of a Precursor of Conglutin δ, A Sulphur-Rich Protein from Lupinus Angustifolius", <i>Plant Molecular Biology</i> , 15: 879-893, 1990.				

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PTO-1449 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0222	IN RE APPLICATION NO.: 10/728,051
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		APPLICANT: Caplan, et al.		
		FILING DATE: December 4, 2003	GROUP: 1644	
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)			
DNK	Gray, et al., "Disulfide Structures of Highly Bridged Peptides: A New Strategy for Analysis", <i>The Protein Society</i> , 1732-1748, 1993.			
	Herbert, et al., "Reduction and Alkylation of Proteins in Preparation of Two-Dimensional Map Analysis: Why, When, and How?" <i>Electrophoresis</i> , 22: 2046-2057, 2001.			
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	Smith, et al., "Localization of Antigenic Sites on Der p 2 Using Oligonucleotide-Directed Mutagenesis Targeted to Predicted Surface Residues", <i>Clinical and Experimental Allergy</i> , 27: 593-599, 1997.			
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	Smith, et al., "Reduction in IgE Binding to Allergen Variants Generated by Site-Directed Mutagenesis: Contribution of Disulfide Bonds to the Antigenic Structure of the Major House Dust Mite Allergen Der p 2", <i>Molecular Immunology</i> , 33(4/5): 399-405, 1996.			
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	Wu, et al., "A Novel Methodology for Assignment of Disulfide Bond Pairing in Proteins", <i>Protein Science</i> , 6(2): 391-398, 1997.			
	Zhou, et al., "Assignment of Disulfide Bonds in Proteins by Partial Acid Hydrolysis and Mass Spectrometry", <i>Journal of Protein Chemistry</i> , 9(5): 523-532, 1990.			
EXAMINER			DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket: 2002834-0222 In re Application No.: NYA

Applicants: Caplan, et al.

Filing Date: December 4, 2003 Group: NYA

1644

**ISSUED U. S. PATENTS**

Examiners Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
CPH	*3,645,852	Axen, et al.	February 29, 1972	195	68
	*3,720,760	Bennich et al.	February 7, 1984	436	51.3
	*4,171,299	Hamburger	October 16, 1979	260	112.5
	*4,338,297	Michael et al.	July 6, 1982	424	91
	*4,469,677	Michael et al.	September 4, 1984	424	91
	*4,535,010	Axen et al.	August 13, 1985	427	246
	*4,579,840	Hahn et al.	April 1, 1986	514	14
	*4,659,678	Forrest et al.	April 21, 1987	436	512
	*4,696,915	Horecker	September 29, 1987		
	*4,816,449	Hahn et al.	March 28, 1989	514	17
	*4,849,337	Calenoff et al.	July 18, 1989	435	7
	*4,900,556	Wheatley, et al.	February 13, 1990	424	450
	*5,026,545	Saint-Remy et al.	June 25, 1991		
	*5,049,390	Wojdani	September 17, 1991	424	450
	*5,091,318	Anawis et al.	February 25, 1992	436	513
	*5,169,933	Anderson et al.	December 8, 1992	531	391.3
	*5,314,991	Oka et al.	May 24, 1994	530	350
	*5,449,669	Metcalfe et al.	September 12, 1995	514	13
	*5,480,972	Avjioglu et al.	January 2, 1996	530	379
	*5,486,452	Gordon et al.	January 23, 1996	435	5
	*5,496,554	Oka et al.	March 5, 1996	424	276.1
	*5,543,144	Chang	August 6, 1996	424	133.1
	*5,547,669	Rogers et al.	August 20, 1996	424	183.1
	*5,558,869	Burks, Jr. et al.	September 24, 1996	424	276.1
	*5,583,046	Valenta et al.	December 10, 1996	435	320.1
	*5,591,433	Michael et al.	January 7, 1997	424	184.1
	*5,597,895	Gaynor et al.	January 28, 1997	530	324
	*5,616,559	Androphy et al.	April 1, 1997	514	12
	*5,625,039	Washida et al.	April 29, 1997	530	388.25
	*5,637,454	Harley	June 10, 1997	435	5
	*5,648,242	Valenta et al.	July 15, 1997	435	69.3
✓	*5,652,122	Frankel et al.	July 29, 1997	435	69.7

**ISSUED U. S. PATENTS (Cont.)**

Examiners Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PK	*5,667,965	Androphy et al.	September 16, 1997	435	5
	*5,670,617	Frankel et al.	September 23, 1997	530	300
	*5,674,980	Frankel et al.	October 7, 1997	530	350
	*5,693,495	Breiteneder et al.	December 2, 1997	435	69.3
	*5,710,126	Griffith et al.	January 20, 1998	514	12
	*5,731,157	Miller et al.	March 24, 1998	435	7.4
	*5,736,149	Avjioglu et al.	April 7, 1998	424	275.1
	*5,747,641	Frankel et al.	May 5, 1998	530	300
	*5,773,003	Swain et al.	June 30, 1998	424	193.1
	*5,786,466	Breiteneder et al.	July 28, 1998	536	23.6
	*5,804,604	Frankel et al.	September 8, 1998	530	324
	*5,807,746	Lin et al.	September 15, 1998	435	375
	*5,820,862	Garman et al.	October 13, 1998	424	184.1
	*5,837,550	Breitenbach et al.	November 17, 1998	436	513
	*5,843,672	Morgenstern et al.,	December 1, 1998	435	7.1
	*5,843,710	Cobon et al.	December 1, 1998	435	69.1
	*5,869,040	Oin	February 9, 1999	424	93.21
	*5,888,762	Joliot et al.	March 30, 1999	435	69.1
	*5,891,716	Morgenstern et al.,	April 6, 1999	435	325
	*5,891,432	Hoo	April 6, 1999	424	93.21
	*5,939,283	Morgenstern et al.,	August 17, 1999	435	69.1
	*5,973,121	Burks, Jr., et al.	October 26, 1999	530	370
	*5,989,814	Frankel et al.	November 23, 1999	435	6
	*5,998,583	Korsmeyer	December 7, 1999	530	350
✓	*6,008,340	Ball et al.	December 28, 1999	536	23.6
✓	*6,060,082	Chen et al.	May 9, 2000	424	450

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Examiner's Initials	Serial Number	Applicant	Filing Date	Class	Subclass
PK	*07/998,377		December 30, 1992		
	*08/158,704		November 29, 1993		
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	*09/015,657		January 28, 1999		
	*09/336,463		June 18, 1999		
	*60/009,455		December 29, 1995		
	*08/610,424		March 4, 1996		
	*08/717,933		September 23, 1996		
✓	*09/106,872		June 29, 1998		
✓	*60/077,763		March 13, 1998		

4/19/05

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Examiner's Initials	Serial Number	Applicant	Filing Date	Class	Subclass
P.K	*09/267,719		March 11, 1999		
	*60/073,283		January 31, 1998		
	*60/074,690		February 13, 1998		
	*60/074,624		February 13, 1998		
	*60/074,633		February 13, 1998		
	*09/241,101		January 29, 1999		
	*09/248,673		February 11, 1999		
	*09/248,674		February 11, 1999		
	*60/073,171		January 30, 1998		
	*09/238,448		January 28, 1999		
	*09/090,375		June 4, 1998		
	*09/141,220		August 27, 1998		
	*09/478,668		January 6, 2000		
	*09/240,557		January 29, 1999		
	*60/122,450		March 2, 1999		
	*60/112,452		March 2, 1999		
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<i>PNT</i>	*Zimmerman, et al., "CpG Oligodeoxynucleotides Trigger Protective and Curative Th1 Responses in Lethal Murine Leishmaniasis," <i>J. Immunol.</i> 160(8): 3627-30, 1998.	
EXAMINER	<i>D.S.H. 7/1</i>	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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